

**REMARKS**

The Examiner is thanked for the due consideration given the application.

The specification has been amended to state that complementary colours associated with each of the primary colours. This is implicit from the specification where, in fact, signals on which it is possible to act are the ones that are output from the pixels. As according to the present invention, implemented pixels are provided with filters of complementary colours, only signals corresponding to complementary colours are available.

It is thus possible, according to the present invention, to act on the pixels of complementary colours associated with each of the primary colours instead of acting on, only, the signals of primary colours.

Claims 1-5 and 8-15 and 17 are pending in the application. The acknowledgement of the allowability of claims 1-5 and 8-17 is noted with appreciation. Claim 16 has been canceled, and subject matter from claim 16 has been generally incorporated into claims 1 and 4. The claims have been amended to remove reference numerals and to address the indefiniteness rejection, as will be discussed below.

No new matter is believed to be added to the application by this amendment.

**Claim Objections**

Claims 1, 4 and 13 have been objected to as containing informalities. The Official Action asserts that reference numerals and the phrase "cause to appear" should be removed.

The comments in the Official Action have been considered, and the claims have been appropriately amended

**Rejection Under 35 USC §112, Second Paragraph**

Claims 1-5 and 8-17 have been rejected under 35 USC §112, second paragraph as being indefinite. This rejection is respectfully traversed.

The comments in the Official Action have been considered, and the claims have been amended in accordance thereof and in light of the following comments.

The phrase "pixel by pixel" is in some extent inherent to the wording of claim 1, however, claim 1 has been amended to explicitly set forth this limitation.

The phrase proposed by the Examiner at page 3, lines 1-2 is inserted with a slight modification: "of" is replaced by "by" in order to signify that the energy is the one received on (or by) the two neighbouring pixels in the second band of frequency.

Claims 13 and 14 have been appropriately amended by removing the phrase according to which the amplification is realized using signals received on green and yellow pixels as it does not correspond to reality. Effectively, the red colour has

components in yellow and magenta pixels that are the ones that need to be amplified in order to amplify the red radiation, i.e., the fluorescence (see also the Amendment of November 1, 2008). According to the present invention, an amplification of signal received on yellow pixel is decided if the energy received really corresponds to a red frequency.

Thus, the amplification as defined in claim 1 may be implemented as an amplification of the yellow pixel only when the magenta pixel has received energy. But according to claims 13, 14, 15 and 17, a further pixel, the green pixel, is used. The amplification is determined by consulting the green pixel (third pixel). If the neighbouring green pixel has received a significant amount of energy, the energy received on the yellow pixel results from a green radiation and the yellow pixel is not amplified. If the neighbouring green pixel did not receive energy or little energy, the yellow pixel is amplified as the energy likely corresponding to a red radiation. This enables a more selective amplification.

The claims are thus clear, definite and have full antecedent basis.

This rejection is believed to be overcome, and withdrawal thereof is respectfully requested.

**Conclusion**

The Examiner is thanked for considering the Information Disclosure Statement filed January 23, 2006 and for making an initialed PTO-1449 Form of record in the application.

Prior art of record but not utilized is believed to be non-pertinent to the instant claims.

The objections and rejection are believed to have been overcome, obviated or rendered moot, and that no issues remain. The Examiner is accordingly respectfully requested to place the application in condition for allowance and to issue a Notice of Allowability.

The Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 25-0120 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17.

Respectfully submitted,

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